



September 24, 2013

Brad Davis
Zia Engineering & Environmental
755 S Telshor Blvd Ste F-201
Las Cruces, NM 88011
TEL: (575) 993-6824
FAX (575) 532-1587
RE: HELSTF Chromate Spill

Order No.: 1309108

Dear Brad Davis:

DHL Analytical, Inc. received 3 sample(s) on 9/12/2013 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of DoD QSM Ver 4.2 and NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. This report shall not be reproduced except in full without the written approval of DHL Analytical, Inc. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in red ink, appearing to read 'John DuPont'.

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas & DoD Laboratory Certification Number: T104704211-13-11 & DoD ELAP #ADE-1416 v2



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756 S. Tebor Blvd. Ste. F-201
 Las Cruces, NM 88011
 575-532-1526 u
 575-532-1587 f

CHAIN OF CUSTODY RECORD

#1309108

PAGE 1 OF 1

PROJECT NO.		PROJECT NAME			NO. OF CONTAINERS	ANALYSIS REQUESTED							REMARKS				
SAMPLER'S SIGNATURE		DATE				TIME	SAMPLE ID	WTR TX	LAB NO.	TOC	VOCs	TPH		DRO	Hexavalent Chromium	Total Chromium	pH
Bradley T. Davis		HELSTF Chromate Spill															
01	9-11-13	1042	HL5F-0143-HMW-037-0913-TB	Water	2				X								Trip Blank
02	9-11-13	1042	HL5F-0143-HMW-037-0913	Water	10	X	X	X	X	X	X						
03	9-11-13	1150	HL5F-0143-HMW-037-0913	Water	10	X	X	X	X	X	X						
PROJECT INFORMATION		SAMPLES RECEIVED		1. RELINQUISHED BY: (SIGNATURE)		2. RELINQUISHED BY: (SIGNATURE)		3. RECEIVED BY LAB: (SIGNATURE)									
PROJECT MANAGER		TOTAL NO. OF CONTAINERS		(PRINTED NAME) 9-11-13		(PRINTED NAME) 9/12/13 1020		(PRINTED NAME)									
SHIPPING ID NO.		CHAIN OF CUSTODY SEALS		RECEIVED BY: (SIGNATURE)		RECEIVED BY: (SIGNATURE)		(COMPANY)									
VIA: FedEx		GOOD CONDITION/CHECKED		(TIME/DATE) 9/11/13		(TIME/DATE) 9/12/13 1020		(TIME/DATE)									
		CONFORMS TO RECORD		SPECIAL INSTRUCTIONS/COMMENTS:													

FedEx *NEW Package*
Express *US Airbill*

FedEx Tracking Number **8037 3859 7044**

Form ID No. **0200**

1 From
Date **9-11-13**

Sender's Name **Brad Davis** Phone **575 644-9192**

Company **Zia Engineering**

Address **755 S. Telshor Blvd. F-201**
Dept./Floor/Suite/Room

City **Las Cruces** State **NM** ZIP **88011**

2 Your Internal Billing Reference

3 To
Recipient's Name **J. Barker** Phone **512 388-8222**

Company **DHL Analytical**
2300 Double Creek Drive

Address
We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept./Floor/Suite/Room

Address
Use this line for the HOLD location address or for continuation of your shipping address.

City **Round Rock** State **TX** ZIP **78664**

HOLD Weekday
FedEx location address
REQUIRED. NOT available for
FedEx First Overnight.

HOLD Saturday
FedEx location address
REQUIRED. Available ONLY for
FedEx Priority Overnight and
FedEx 2Day to select locations.

4 Express Package Service *To
NOTE: Service order has changed. Please select c

Next Business Day

FedEx First Overnight
Earliest next business morning delivery to select
locations. Friday shipments will be delivered on
Monday unless SATURDAY Delivery is selected.

FedEx Priority Overnight
Next business morning. Friday shipments will be
delivered on Monday unless SATURDAY Delivery
is selected.

FedEx Standard Overnight
Saturday Delivery NOT available.

5 Packaging *Declared value limit \$500.

FedEx Envelope* **FedEx Pak***

6 Special Handling and Delivery Sig

SATURDAY Delivery
NOT available for FedEx Standard Overnight, FedEx 2Day A.J.

No Signature Required
Package may be left without
obtaining a signature for delivery.

Direct Signature
Someone at recipient's address
may sign for delivery. Fee applies.

Indirect Signature
If no one is available at recipient's
address, someone at a neighboring
address may sign for delivery. For
residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?

One box must be checked.
 No **Yes** As per attached
Shipper's Declaration. **Yes** Shipper's Declaration
not required.

Dry Ice UN 1845 x kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging
or placed in a FedEx Express Drop Box.

Cargo Aircraft Only

7 Payment Bill to:

Enter FedEx Acct. No. or Credit Card No. below: Obtain recip. Acct. No.
 Sender Acct. No. in Section
available billed. **Recipient** **Third Party** **Credit Card** **Cash/Check**

Total Packages Total Weight lbs. Credit Card Auth.

*Our liability is limited to US\$100 unless you declare a higher value. See the current FedEx Service Guide for details.

644



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CUSTODY SEAL
DATE **9/11/2013**
SIGNATURE **Groyl Espinoza**

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

Sample Receipt Checklist

Client Name Zia Engineering & Environmental

Date Received: 9/12/2013

Work Order Number 1309108

Received by JB

Checklist completed by: [Signature] 9/12/2013

Reviewed by: [Initials] 9/12/2013

Carrier name FedEx 1day

- Shipping container/cooler in good condition? Yes [checked] No [] Not Present []
Custody seals intact on shipping container/cooler? Yes [checked] No [] Not Present []
Custody seals intact on sample bottles? Yes [] No [] Not Present [checked]
Chain of custody present? Yes [checked] No []
Chain of custody signed when relinquished and received? Yes [checked] No []
Chain of custody agrees with sample labels? Yes [checked] No []
Samples in proper container/bottle? Yes [checked] No []
Sample containers intact? Yes [checked] No []
Sufficient sample volume for indicated test? Yes [checked] No []
All samples received within holding time? Yes [checked] No []
Container/Temp Blank temperature in compliance? Yes [checked] No [] 2.0 °C
Water - VOA vials have zero headspace? Yes [checked] No [] No VOA vials submitted []
Water - pH<2 acceptable upon receipt? Yes [checked] No [] NA [] LOT # 7179
Adjusted? [] Checked by []
Water - ph>9 (S) or ph>12 (CN) acceptable upon receipt? Yes [] No [] NA [checked] LOT #
Adjusted? [] Checked by []

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: HELSTF Chromate Spill		Date: 9/24/13					
Reviewer Name: Carlos Castro		Laboratory Work Order: 1309108					
Prep Batch Number(s): See Prep Dates Report		Run Batch: See Analytical Dates Report					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-Custody (C-O-C)					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and Quality Control (QC) Identification					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test Reports					
		1) Were all samples prepared and analyzed within holding times?		X			R1-01
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			X		
		8) If required for the project, TICs reported?			X		
R4	O	Surrogate Recovery Data					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			R4-02
R5	OI	Test Reports/Summary Forms for Blank Samples					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?		X			R5-04
R6	OI	Laboratory Control Samples (LCS):					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	Analytical Duplicate Data					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	Method Quantitation Limits (MQLs):					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?	X				
R10	OI	Other Problems/Anomalies					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				R10-01
		2) Were all necessary corrective actions performed for the reported data?	X				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.							
Laboratory Review Checklist (continued): Supporting Data							
Project Name: HELSTF Chromate Spill				Date: 9/24/13			
Reviewer Name: Carlos Castro				Laboratory Work Order: 1309108			
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial Calibration (ICAL)					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB)					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?		X			S2-02
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	Mass Spectral Tuning					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal Standards (IS)					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw Data (NELAC section 1 appendix A glossary, and section 5.12)					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual Column Confirmation					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively Identified Compounds (TICs)					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) Results					
		1) Were percent recoveries within method QC limits?	X				
S9	I	Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	Method Detection Limit (MDL) Studies					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency Test Reports					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards Documentation					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/Analyte Identification Procedures					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of Analyst Competency (DOC)					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/Validation Documentation for Methods (NELAC Chap 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory Standard Operating Procedures (SOPs)					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC 5.13
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

John DuPont – General Manager

Scott Schroeder – Technical Director



Signature

09/25/13

Date

CLIENT: Zia Engineering & Environmental
Project: HELSTF Chromate Spill
Lab Order: 1309108

CASE NARRATIVE

This case narrative describes abnormalities and deviations that may affect the results and summarizes all known issues that need to be highlighted for the data user to assess the results. This case narrative and the report contents are compliant with DoD QSM Ver 4.2 and NELAC.

Samples were analyzed using the methods outlined in the following references:

Method SW6020A - Metals Analysis
Method M8015D - DRO Analysis
Method SW8260C - Volatile Organics
Method M3500-Cr D - Hexavalent Chromium Analysis
Method M4500-H+ B - pH of a Water
Method M5310C - TOC Analysis

Exception Report R1-01

The samples were received on and log-in performed on 9/12/13. A total of 3 samples were received and all were analyzed. Sample HLSF-0143-HMW-037-0913 arrived at DHL Analytical outside of HoldTime for Hexavalent Chromium analysis. The Hexavalent Chromium result is flagged with a "C" to designate this. The samples arrived in good condition and were properly packaged.

Exception Report R4-02

For DRO analysis performed on 9/17/13 the surrogate recoveries for sample HLSF-0143-HMW-039-0913 and the LCSD were slightly below the method control limits for Isopropylbenzene. These are flagged accordingly. The remaining surrogate was within method control limits. No further corrective actions were taken.

Exception Report R5-04

For DRO analysis performed on 9/17/13 DRO was detected below the reporting limit in the method blank (MB-59501). Samples HLSF-0143-HMW-037-0913 and HLSF-0143-HMW-039-0913 may be biased high. No further corrective actions were taken.

Exception Report R10-01

For Metals and Hexavalent Chromium analyses by methods SW6020A and M3500-Cr D the Hexavalent Chromium result was slightly higher than the total Chromium result for sample HLSF-0143-HMW-039-0913. This is within the acceptable variation limits. No further corrective actions were taken.

CLIENT: Zia Engineering & Environmental
Project: HELSTF Chromate Spill
Lab Order: 1309108

CASE NARRATIVE

For Volatiles analysis a matrix spike and matrix spike duplicate was not performed due to insufficient sample volume. An LCS/LCSD was performed instead.

For DRO analysis a matrix spike and matrix spike duplicate was not performed due to insufficient sample volume. An LCS/LCSD was performed instead.

Exception Report S2-02

For Volatiles analysis, the recoveries of three compounds for the Initial Calibration Verification (ICV-130918) were outside of the method control limits specified in SW8260C (80-120% recovery). These are flagged accordingly in the QC summary report. The number of target compounds outside of the method control limits for the ICV are less than 20% of the total number of compounds being reported; this is allowed in SW8260C specifications. These compounds were within method control limits in the associated LCS. No further corrective actions were taken.

A summary of project communication follows:

DHL Analytical received the Project RFQ from the client on 12/29/09. Completed RFQ returned to client via email on 1/07/2010. Purchase Order/Terms and Conditions received and signed and approved by both parties on 01/25/2010.

Brad Davis of Zia requested a bottle kit via email from Jennifer Barker of DHL on 8/13/13.

DHL Bottle kit #4277 sent on 8/26/13 via Lonestar Overnight, to arrive by 8/29/13.

This sample delivery group arrived at DHL Analytical 9/12/13. Sample summary sent via email from Log-in to client on 9/12/13.

All hardcopies for the sample kit request, bill of lading for sample kit sent and login summary are kept in project folder or are filed in the project/Client folder as part of the Administrative records in the QA office.

CLIENT: Zia Engineering & Environmental
Project: HELSTF Chromate Spill
Lab Order: 1309108

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
1309108-01	HLSF-0143-HMW-037-0913-TB		09/11/13 10:42 AM	9/12/2013
1309108-02	HLSF-0143-HMW-037-0913		09/11/13 10:42 AM	9/12/2013
1309108-03	HLSF-0143-HMW-039-0913		09/11/13 11:50 AM	9/12/2013

Lab Order: 1309108
Client: Zia Engineering & Environmental
Project: HELSTF Chromate Spill

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1309108-01A	HLSF-0143-HMW-037-0913-TB	09/11/13 10:42 AM	Trip Blank	SW5030C	Purge and Trap Water GC/MS	09/18/13 10:36 AM	59541
1309108-02A	HLSF-0143-HMW-037-0913	09/11/13 10:42 AM	Aqueous	SW5030C	Purge and Trap Water GC/MS	09/18/13 10:36 AM	59541
1309108-02B	HLSF-0143-HMW-037-0913	09/11/13 10:42 AM	Aqueous	M5310C	TOC prep Aqueous	09/12/13 10:00 AM	59453
1309108-02C	HLSF-0143-HMW-037-0913	09/11/13 10:42 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	09/13/13 09:32 AM	59477
	HLSF-0143-HMW-037-0913	09/11/13 10:42 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	09/13/13 09:32 AM	59477
1309108-02D	HLSF-0143-HMW-037-0913	09/11/13 10:42 AM	Aqueous	SW7196A	Hexachrom Prep Water	09/12/13 11:26 AM	59467
	HLSF-0143-HMW-037-0913	09/11/13 10:42 AM	Aqueous	M4500-H+ B	pH Preparation	09/12/13 12:00 PM	59470
1309108-02E	HLSF-0143-HMW-037-0913	09/11/13 10:42 AM	Aqueous	SW3510C	Aq Prep Sep Funnel: DRO	09/16/13 01:19 PM	59501
1309108-03A	HLSF-0143-HMW-039-0913	09/11/13 11:50 AM	Aqueous	SW5030C	Purge and Trap Water GC/MS	09/18/13 10:36 AM	59541
1309108-03B	HLSF-0143-HMW-039-0913	09/11/13 11:50 AM	Aqueous	M5310C	TOC prep Aqueous	09/12/13 10:00 AM	59453
1309108-03C	HLSF-0143-HMW-039-0913	09/11/13 11:50 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	09/13/13 09:32 AM	59477
	HLSF-0143-HMW-039-0913	09/11/13 11:50 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	09/13/13 09:32 AM	59477
1309108-03D	HLSF-0143-HMW-039-0913	09/11/13 11:50 AM	Aqueous	SW7196A	Hexachrom Prep Water	09/12/13 11:26 AM	59467
	HLSF-0143-HMW-039-0913	09/11/13 11:50 AM	Aqueous	M4500-H+ B	pH Preparation	09/12/13 12:00 PM	59470
1309108-03E	HLSF-0143-HMW-039-0913	09/11/13 11:50 AM	Aqueous	SW3510C	Aq Prep Sep Funnel: DRO	09/16/13 01:19 PM	59501

Lab Order: 1309108
Client: Zia Engineering & Environmental
Project: HELSTF Chromate Spill

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1309108-01A	HLSF-0143-HMW-037-0913-TB	Trip Blank	SW8260C	8260 Water Volatiles by GC/MS	59541	1	09/18/13 12:57 PM	GCMS7_130918A
1309108-02A	HLSF-0143-HMW-037-0913	Aqueous	SW8260C	8260 Water Volatiles by GC/MS	59541	1	09/18/13 01:22 PM	GCMS7_130918A
1309108-02B	HLSF-0143-HMW-037-0913	Aqueous	M5310C	Total Organic Carbon	59453	1	09/12/13 12:34 PM	TOC_130912A
1309108-02C	HLSF-0143-HMW-037-0913	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	59477	1	09/17/13 01:31 PM	ICP-MS3_130917A
1309108-02D	HLSF-0143-HMW-037-0913	Aqueous	M3500-Cr D	Hexavalent Chromium-Water	59467	1	09/12/13 12:49 PM	UV/VIS_2_130912B
	HLSF-0143-HMW-037-0913	Aqueous	M4500-H+ B	pH	59470	1	09/12/13 12:40 PM	TITRATOR_130912A
1309108-02E	HLSF-0143-HMW-037-0913	Aqueous	M8015D	TPH Extractable by GC - Water	59501	1	09/17/13 03:33 PM	GC15_130917A
1309108-03A	HLSF-0143-HMW-039-0913	Aqueous	SW8260C	8260 Water Volatiles by GC/MS	59541	1	09/18/13 01:46 PM	GCMS7_130918A
1309108-03B	HLSF-0143-HMW-039-0913	Aqueous	M5310C	Total Organic Carbon	59453	1	09/12/13 12:58 PM	TOC_130912A
1309108-03C	HLSF-0143-HMW-039-0913	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	59477	1	09/17/13 01:37 PM	ICP-MS3_130917A
1309108-03D	HLSF-0143-HMW-039-0913	Aqueous	M3500-Cr D	Hexavalent Chromium-Water	59467	1	09/12/13 12:43 PM	UV/VIS_2_130912B
	HLSF-0143-HMW-039-0913	Aqueous	M4500-H+ B	pH	59470	1	09/12/13 12:45 PM	TITRATOR_130912A
1309108-03E	HLSF-0143-HMW-039-0913	Aqueous	M8015D	TPH Extractable by GC - Water	59501	1	09/17/13 03:42 PM	GC15_130917A

DHL Analytical, Inc.

Date: 24-Sep-13

CLIENT: Zia Engineering & Environmental
Project: HELSTF Chromate Spill
Project No:
Lab Order: 1309108

Client Sample ID: HLSF-0143-HMW-037-0913-TB
Lab ID: 1309108-01
Collection Date: 09/11/13 10:42 AM
Matrix: TRIP BLANK

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS		SW8260C			Analyst: KL		
1,1,1,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 12:57 PM
1,1,1-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 12:57 PM
1,1,2,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 12:57 PM
1,1,2-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 12:57 PM
1,1-Dichloroethane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 12:57 PM
1,1-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 12:57 PM
1,1-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 12:57 PM
1,2,3-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	09/18/13 12:57 PM
1,2,3-Trichloropropane	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 12:57 PM
1,2,4-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	09/18/13 12:57 PM
1,2,4-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	09/18/13 12:57 PM
1,2-Dibromo-3-chloropropane	<0.00300	0.00300	0.0100		mg/L	1	09/18/13 12:57 PM
1,2-Dibromoethane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 12:57 PM
1,2-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 12:57 PM
1,2-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 12:57 PM
1,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 12:57 PM
1,3,5-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	09/18/13 12:57 PM
1,3-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 12:57 PM
1,3-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 12:57 PM
1,4-Dichloro-2-butene	<0.00200	0.00200	0.00200		mg/L	1	09/18/13 12:57 PM
1,4-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 12:57 PM
2,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 12:57 PM
2-Butanone	<0.00500	0.00500	0.0150		mg/L	1	09/18/13 12:57 PM
2-Chloroethylvinylether	<0.00500	0.00500	0.0150		mg/L	1	09/18/13 12:57 PM
2-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 12:57 PM
2-Hexanone	<0.00500	0.00500	0.0150		mg/L	1	09/18/13 12:57 PM
4-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 12:57 PM
4-Methyl-2-pentanone	<0.00500	0.00500	0.0150		mg/L	1	09/18/13 12:57 PM
Acetone	<0.00500	0.00500	0.0150		mg/L	1	09/18/13 12:57 PM
Acrylonitrile	<0.00100	0.00100	0.00300		mg/L	1	09/18/13 12:57 PM
Benzene	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 12:57 PM
Bromobenzene	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 12:57 PM
Bromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 12:57 PM
Bromodichloromethane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 12:57 PM
Bromoform	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 12:57 PM
Bromomethane	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 12:57 PM
Carbon disulfide	<0.00500	0.00500	0.0150		mg/L	1	09/18/13 12:57 PM
Carbon tetrachloride	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 12:57 PM

Qualifiers:	* Value exceeds TCLP Maximum Concentration Level	B Analyte detected in the associated Method Blank
	C Sample Result or QC discussed in the Case Narrative	DF Dilution Factor
	E TPH pattern not Gas or Diesel Range Pattern	J Analyte detected between MDL and RL
	MDL Method Detection Limit	ND Not Detected at the Method Detection Limit
	RL Reporting Limit	S Spike Recovery outside control limits
	N Parameter not NELAC certified	

DHL Analytical, Inc.

Date: 24-Sep-13

CLIENT: Zia Engineering & Environmental
Project: HELSTF Chromate Spill
Project No:
Lab Order: 1309108

Client Sample ID: HLSF-0143-HMW-037-0913-TB
Lab ID: 1309108-01
Collection Date: 09/11/13 10:42 AM
Matrix: TRIP BLANK

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Chlorobenzene	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 12:57 PM
Chloroethane	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 12:57 PM
Chloroform	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 12:57 PM
Chloromethane	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 12:57 PM
cis-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 12:57 PM
cis-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 12:57 PM
Dibromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 12:57 PM
Dibromomethane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 12:57 PM
Dichlorodifluoromethane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 12:57 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 12:57 PM
Iodomethane	<0.00500	0.00500	0.0150		mg/L	1	09/18/13 12:57 PM
Isopropylbenzene	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 12:57 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	09/18/13 12:57 PM
Methyl tert-butyl ether	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 12:57 PM
Methylene chloride	<0.00250	0.00250	0.00250		mg/L	1	09/18/13 12:57 PM
n-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 12:57 PM
n-Propylbenzene	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 12:57 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 12:57 PM
p-Isopropyltoluene	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 12:57 PM
sec-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 12:57 PM
Styrene	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 12:57 PM
tert-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 12:57 PM
Tetrachloroethene	<0.000600	0.000600	0.00200		mg/L	1	09/18/13 12:57 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	09/18/13 12:57 PM
trans-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 12:57 PM
trans-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 12:57 PM
Trichloroethene	<0.000600	0.000600	0.00200		mg/L	1	09/18/13 12:57 PM
Trichlorofluoromethane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 12:57 PM
Vinyl chloride	<0.000100	0.000100	0.00100		mg/L	1	09/18/13 12:57 PM
Surr: 1,2-Dichloroethane-d4	96.2	0	70-120		%REC	1	09/18/13 12:57 PM
Surr: 4-Bromofluorobenzene	104	0	75-120		%REC	1	09/18/13 12:57 PM
Surr: Dibromofluoromethane	101	0	85-115		%REC	1	09/18/13 12:57 PM
Surr: Toluene-d8	93.7	0	85-120		%REC	1	09/18/13 12:57 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 24-Sep-13

CLIENT: Zia Engineering & Environmental
Project: HELSTF Chromate Spill
Project No:
Lab Order: 1309108

Client Sample ID: HLSF-0143-HMW-037-0913
Lab ID: 1309108-02
Collection Date: 09/11/13 10:42 AM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER		M8015D			Analyst: AV		
TPH-DRO C10-C28	0.133	0.0800	0.100		mg/L	1	09/17/13 03:33 PM
Surr: Isopropylbenzene	48.1	0	47-142		%REC	1	09/17/13 03:33 PM
Surr: Octacosane	91.2	0	51-124		%REC	1	09/17/13 03:33 PM
TRACE METALS: ICP-MS - WATER		SW6020A			Analyst: SW		
Chromium	0.00327	0.00200	0.00600	J	mg/L	1	09/17/13 01:31 PM
8260 WATER VOLATILES BY GC/MS		SW8260C			Analyst: KL		
1,1,1,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:22 PM
1,1,1-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:22 PM
1,1,2,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:22 PM
1,1,2-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:22 PM
1,1-Dichloroethane	0.000680	0.000200	0.00100	J	mg/L	1	09/18/13 01:22 PM
1,1-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:22 PM
1,1-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:22 PM
1,2,3-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	09/18/13 01:22 PM
1,2,3-Trichloropropane	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 01:22 PM
1,2,4-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	09/18/13 01:22 PM
1,2,4-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	09/18/13 01:22 PM
1,2-Dibromo-3-chloropropane	<0.00300	0.00300	0.0100		mg/L	1	09/18/13 01:22 PM
1,2-Dibromoethane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:22 PM
1,2-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 01:22 PM
1,2-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 01:22 PM
1,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:22 PM
1,3,5-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	09/18/13 01:22 PM
1,3-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 01:22 PM
1,3-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:22 PM
1,4-Dichloro-2-butene	<0.00200	0.00200	0.00200		mg/L	1	09/18/13 01:22 PM
1,4-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 01:22 PM
2,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:22 PM
2-Butanone	<0.00500	0.00500	0.0150		mg/L	1	09/18/13 01:22 PM
2-Chloroethylvinylether	<0.00500	0.00500	0.0150		mg/L	1	09/18/13 01:22 PM
2-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 01:22 PM
2-Hexanone	<0.00500	0.00500	0.0150		mg/L	1	09/18/13 01:22 PM
4-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 01:22 PM
4-Methyl-2-pentanone	<0.00500	0.00500	0.0150		mg/L	1	09/18/13 01:22 PM
Acetone	<0.00500	0.00500	0.0150		mg/L	1	09/18/13 01:22 PM
Acrylonitrile	<0.00100	0.00100	0.00300		mg/L	1	09/18/13 01:22 PM
Benzene	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:22 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 24-Sep-13

CLIENT: Zia Engineering & Environmental
Project: HELSTF Chromate Spill
Project No:
Lab Order: 1309108

Client Sample ID: HLSF-0143-HMW-037-0913
Lab ID: 1309108-02
Collection Date: 09/11/13 10:42 AM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Bromobenzene	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:22 PM
Bromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:22 PM
Bromodichloromethane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:22 PM
Bromoform	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:22 PM
Bromomethane	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 01:22 PM
Carbon disulfide	<0.00500	0.00500	0.0150		mg/L	1	09/18/13 01:22 PM
Carbon tetrachloride	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:22 PM
Chlorobenzene	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:22 PM
Chloroethane	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 01:22 PM
Chloroform	0.00681	0.000300	0.00100		mg/L	1	09/18/13 01:22 PM
Chloromethane	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 01:22 PM
cis-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:22 PM
cis-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:22 PM
Dibromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:22 PM
Dibromomethane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:22 PM
Dichlorodifluoromethane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:22 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 01:22 PM
Iodomethane	<0.00500	0.00500	0.0150		mg/L	1	09/18/13 01:22 PM
Isopropylbenzene	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:22 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	09/18/13 01:22 PM
Methyl tert-butyl ether	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 01:22 PM
Methylene chloride	<0.00250	0.00250	0.00250		mg/L	1	09/18/13 01:22 PM
n-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 01:22 PM
n-Propylbenzene	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 01:22 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 01:22 PM
p-Isopropyltoluene	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 01:22 PM
sec-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 01:22 PM
Styrene	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:22 PM
tert-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 01:22 PM
Tetrachloroethene	<0.000600	0.000600	0.00200		mg/L	1	09/18/13 01:22 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	09/18/13 01:22 PM
trans-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:22 PM
trans-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:22 PM
Trichloroethene	<0.000600	0.000600	0.00200		mg/L	1	09/18/13 01:22 PM
Trichlorofluoromethane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:22 PM
Vinyl chloride	<0.000100	0.000100	0.00100		mg/L	1	09/18/13 01:22 PM
Surr: 1,2-Dichloroethane-d4	96.5	0	70-120		%REC	1	09/18/13 01:22 PM
Surr: 4-Bromofluorobenzene	102	0	75-120		%REC	1	09/18/13 01:22 PM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
	C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
	E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
	MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
	RL	Reporting Limit	S	Spike Recovery outside control limits
	N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 24-Sep-13

CLIENT: Zia Engineering & Environmental
Project: HELSTF Chromate Spill
Project No:
Lab Order: 1309108

Client Sample ID: HLSF-0143-HMW-037-0913
Lab ID: 1309108-02
Collection Date: 09/11/13 10:42 AM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS		SW8260C		Analyst: KL			
Surr: Dibromofluoromethane	101	0	85-115		%REC	1	09/18/13 01:22 PM
Surr: Toluene-d8	92.5	0	85-120		%REC	1	09/18/13 01:22 PM
HEXAVALENT CHROMIUM-WATER		M3500-CR D		Analyst: LM			
Hexavalent Chromium	<0.00800	0.00800	0.0100	C	mg/L	1	09/12/13 12:49 PM
PH		M4500-H+ B		Analyst: JCG			
pH	7.40	0	0		pH Units@18.1°C	1	09/12/13 12:40 PM
TOTAL ORGANIC CARBON		M5310C		Analyst: JCG			
Total Organic Carbon	1.23	0.300	1.00		mg/L	1	09/12/13 12:34 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 24-Sep-13

CLIENT: Zia Engineering & Environmental
Project: HELSTF Chromate Spill
Project No:
Lab Order: 1309108

Client Sample ID: HLSF-0143-HMW-039-0913
Lab ID: 1309108-03
Collection Date: 09/11/13 11:50 AM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - WATER		M8015D			Analyst: AV		
TPH-DRO C10-C28	0.149	0.0800	0.100		mg/L	1	09/17/13 03:42 PM
Surr: Isopropylbenzene	40.4	0	47-142	S	%REC	1	09/17/13 03:42 PM
Surr: Octacosane	80.8	0	51-124		%REC	1	09/17/13 03:42 PM
TRACE METALS: ICP-MS - WATER		SW6020A			Analyst: SW		
Chromium	0.149	0.00200	0.00600		mg/L	1	09/17/13 01:37 PM
8260 WATER VOLATILES BY GC/MS		SW8260C			Analyst: KL		
1,1,1,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:46 PM
1,1,1-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:46 PM
1,1,2,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:46 PM
1,1,2-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:46 PM
1,1-Dichloroethane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:46 PM
1,1-Dichloroethene	0.00125	0.000200	0.00100		mg/L	1	09/18/13 01:46 PM
1,1-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:46 PM
1,2,3-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	09/18/13 01:46 PM
1,2,3-Trichloropropane	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 01:46 PM
1,2,4-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	09/18/13 01:46 PM
1,2,4-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	09/18/13 01:46 PM
1,2-Dibromo-3-chloropropane	<0.00300	0.00300	0.0100		mg/L	1	09/18/13 01:46 PM
1,2-Dibromoethane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:46 PM
1,2-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 01:46 PM
1,2-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 01:46 PM
1,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:46 PM
1,3,5-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	09/18/13 01:46 PM
1,3-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 01:46 PM
1,3-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:46 PM
1,4-Dichloro-2-butene	<0.00200	0.00200	0.00200		mg/L	1	09/18/13 01:46 PM
1,4-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 01:46 PM
2,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:46 PM
2-Butanone	<0.00500	0.00500	0.0150		mg/L	1	09/18/13 01:46 PM
2-Chloroethylvinylether	<0.00500	0.00500	0.0150		mg/L	1	09/18/13 01:46 PM
2-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 01:46 PM
2-Hexanone	<0.00500	0.00500	0.0150		mg/L	1	09/18/13 01:46 PM
4-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 01:46 PM
4-Methyl-2-pentanone	<0.00500	0.00500	0.0150		mg/L	1	09/18/13 01:46 PM
Acetone	<0.00500	0.00500	0.0150		mg/L	1	09/18/13 01:46 PM
Acrylonitrile	<0.00100	0.00100	0.00300		mg/L	1	09/18/13 01:46 PM
Benzene	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:46 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 24-Sep-13

CLIENT: Zia Engineering & Environmental
Project: HELSTF Chromate Spill
Project No:
Lab Order: 1309108

Client Sample ID: HLSF-0143-HMW-039-0913
Lab ID: 1309108-03
Collection Date: 09/11/13 11:50 AM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Bromobenzene	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:46 PM
Bromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:46 PM
Bromodichloromethane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:46 PM
Bromoform	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:46 PM
Bromomethane	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 01:46 PM
Carbon disulfide	<0.00500	0.00500	0.0150		mg/L	1	09/18/13 01:46 PM
Carbon tetrachloride	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:46 PM
Chlorobenzene	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:46 PM
Chloroethane	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 01:46 PM
Chloroform	0.000440	0.000300	0.00100	J	mg/L	1	09/18/13 01:46 PM
Chloromethane	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 01:46 PM
cis-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:46 PM
cis-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:46 PM
Dibromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:46 PM
Dibromomethane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:46 PM
Dichlorodifluoromethane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:46 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 01:46 PM
Iodomethane	<0.00500	0.00500	0.0150		mg/L	1	09/18/13 01:46 PM
Isopropylbenzene	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:46 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	09/18/13 01:46 PM
Methyl tert-butyl ether	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 01:46 PM
Methylene chloride	<0.00250	0.00250	0.00250		mg/L	1	09/18/13 01:46 PM
n-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 01:46 PM
n-Propylbenzene	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 01:46 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 01:46 PM
p-Isopropyltoluene	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 01:46 PM
sec-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 01:46 PM
Styrene	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:46 PM
tert-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	09/18/13 01:46 PM
Tetrachloroethene	<0.000600	0.000600	0.00200		mg/L	1	09/18/13 01:46 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	09/18/13 01:46 PM
trans-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:46 PM
trans-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:46 PM
Trichloroethene	0.0409	0.000600	0.00200		mg/L	1	09/18/13 01:46 PM
Trichlorofluoromethane	<0.000200	0.000200	0.00100		mg/L	1	09/18/13 01:46 PM
Vinyl chloride	<0.000100	0.000100	0.00100		mg/L	1	09/18/13 01:46 PM
Surr: 1,2-Dichloroethane-d4	96.8	0	70-120		%REC	1	09/18/13 01:46 PM
Surr: 4-Bromofluorobenzene	104	0	75-120		%REC	1	09/18/13 01:46 PM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
	C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
	E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
	MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
	RL	Reporting Limit	S	Spike Recovery outside control limits
	N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 24-Sep-13

CLIENT: Zia Engineering & Environmental
Project: HELSTF Chromate Spill
Project No:
Lab Order: 1309108

Client Sample ID: HLSF-0143-HMW-039-0913
Lab ID: 1309108-03
Collection Date: 09/11/13 11:50 AM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS		SW8260C		Analyst: KL			
Surr: Dibromofluoromethane	102	0	85-115		%REC	1	09/18/13 01:46 PM
Surr: Toluene-d8	92.2	0	85-120		%REC	1	09/18/13 01:46 PM
HEXAVALENT CHROMIUM-WATER		M3500-CR D		Analyst: LM			
Hexavalent Chromium	0.173	0.00800	0.0100		mg/L	1	09/12/13 12:43 PM
PH		M4500-H+ B		Analyst: JCG			
pH	7.64	0	0		pH Units@18.7°C	1	09/12/13 12:45 PM
TOTAL ORGANIC CARBON		M5310C		Analyst: JCG			
Total Organic Carbon	1.77	0.300	1.00		mg/L	1	09/12/13 12:58 PM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
	C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
	E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
	MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
	RL	Reporting Limit	S	Spike Recovery outside control limits
	N	Parameter not NELAC certified		

CLIENT: Zia Engineering & Environmental

Work Order: 1309108

Project: HELSTF Chromate Spill

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_130917A

The QC data in batch 59501 applies to the following samples: 1309108-02E, 1309108-03E

Sample ID	LCS-59501	Batch ID:	59501	TestNo:	M8015D	Units:	mg/L			
SampType:	LCS	Run ID:	GC15_130917A	Analysis Date:	9/17/2013 2:59:38 PM	Prep Date:	9/16/2013			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	0.945	0.100	1.250	0	75.6	50	114			
Surr: Isopropylbenzene	0.0496		0.1000		49.6	47	142			
Surr: Octacosane	0.0806		0.1000		80.6	51	124			

Sample ID	LCSD-59501	Batch ID:	59501	TestNo:	M8015D	Units:	mg/L			
SampType:	LCSD	Run ID:	GC15_130917A	Analysis Date:	9/17/2013 3:08:08 PM	Prep Date:	9/16/2013			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	0.985	0.100	1.250	0	78.8	50	114	4.22	30	
Surr: Isopropylbenzene	0.0445		0.1000		44.5	47	142	0	0	S
Surr: Octacosane	0.0831		0.1000		83.1	51	124	0	0	

Sample ID	MB-59501	Batch ID:	59501	TestNo:	M8015D	Units:	mg/L			
SampType:	MBLK	Run ID:	GC15_130917A	Analysis Date:	9/17/2013 3:25:06 PM	Prep Date:	9/16/2013			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	0.0841	0.100								
Surr: Isopropylbenzene	0.0485		0.1000		48.5	47	142			
Surr: Octacosane	0.0923		0.1000		92.3	51	124			

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL

DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1309108
Project: HELSTF Chromate Spill

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_130917A

Sample ID ICV-130917	Batch ID: R68689	TestNo: M8015D	Units: mg/L
SampType: ICV	Run ID: GC15_130917A	Analysis Date: 9/17/2013 2:44:44 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	509	0.100	500.0	0	102	80	120			
Surr: Isopropylbenzene	25.4		25.00		102	80	120			
Surr: Octacosane	20.6		25.00		82.2	80	120			

Sample ID CCV1-130917	Batch ID: R68689	TestNo: M8015D	Units: mg/L
SampType: CCV	Run ID: GC15_130917A	Analysis Date: 9/17/2013 4:18:35 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	258	0.100	250.0	0	103	80	120			
Surr: Isopropylbenzene	13.2		12.50		106	80	120			
Surr: Octacosane	13.1		12.50		105	80	120			

<p>Qualifiers:</p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p>
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CLIENT: Zia Engineering & Environmental
Work Order: 1309108
Project: HELSTF Chromate Spill

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130917A

The QC data in batch 59477 applies to the following samples: 1309108-02C, 1309108-03C

Sample ID MB-59477	Batch ID: 59477	TestNo: SW6020A	Units: mg/L							
SampType: MBLK	Run ID: ICP-MS3_130917A	Analysis Date: 9/17/2013 12:13:00 PM	Prep Date: 9/13/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chromium	<0.00200	0.00500								
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Sample ID LCS-59477	Batch ID: 59477	TestNo: SW6020A	Units: mg/L							
SampType: LCS	Run ID: ICP-MS3_130917A	Analysis Date: 9/17/2013 12:19:00 PM	Prep Date: 9/13/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chromium	0.190	0.00500	0.200	0	95.2	80	120			
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Sample ID LCSD-59477	Batch ID: 59477	TestNo: SW6020A	Units: mg/L							
SampType: LCSD	Run ID: ICP-MS3_130917A	Analysis Date: 9/17/2013 12:25:00 PM	Prep Date: 9/13/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chromium	0.197	0.00500	0.200	0	98.6	80	120	3.56	20	
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Sample ID 1309022-04D SD	Batch ID: 59477	TestNo: SW6020A	Units: mg/L							
SampType: SD	Run ID: ICP-MS3_130917A	Analysis Date: 9/17/2013 12:43:00 PM	Prep Date: 9/13/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chromium	<0.0100	0.0250	0	0				0	10	
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Sample ID 1309022-04D PDS	Batch ID: 59477	TestNo: SW6020A	Units: mg/L							
SampType: PDS	Run ID: ICP-MS3_130917A	Analysis Date: 9/17/2013 1:43:00 PM	Prep Date: 9/13/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chromium	0.198	0.00500	0.200	0	98.9	80	120			
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Sample ID 1309022-04D MS	Batch ID: 59477	TestNo: SW6020A	Units: mg/L							
SampType: MS	Run ID: ICP-MS3_130917A	Analysis Date: 9/17/2013 1:49:00 PM	Prep Date: 9/13/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chromium	0.207	0.00500	0.200	0	104	80	120			
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Sample ID 1309022-04D MSD	Batch ID: 59477	TestNo: SW6020A	Units: mg/L							
SampType: MSD	Run ID: ICP-MS3_130917A	Analysis Date: 9/17/2013 1:55:00 PM	Prep Date: 9/13/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chromium	0.205	0.00500	0.200	0	102	80	120	1.31	20	
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Qualifiers:	B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit	R RPD outside accepted control limits
ND Not Detected at the Method Detection Limit	S Spike Recovery outside control limits	N Parameter not NELAC certified
RL Reporting Limit		
J Analyte detected between SDL and RL		

CLIENT: Zia Engineering & Environmental
Work Order: 1309108
Project: HELSTF Chromate Spill

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130917A

Sample ID 1309089-03C MS	Batch ID: 59477	TestNo: SW6020A	Units: mg/L							
SampType: MS	Run ID: ICP-MS3_130917A	Analysis Date: 9/17/2013 2:01:00 PM	Prep Date: 9/13/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.173	0.00500	0.200	0.00376	84.8	80	120			

Sample ID 1309089-03C MSD	Batch ID: 59477	TestNo: SW6020A	Units: mg/L							
SampType: MSD	Run ID: ICP-MS3_130917A	Analysis Date: 9/17/2013 2:07:00 PM	Prep Date: 9/13/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.173	0.00500	0.200	0.00376	84.6	80	120	0.173	20	

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1309108
Project: HELSTF Chromate Spill

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130917A

Sample ID	ICV1-130917	Batch ID:	R68688	TestNo:	SW6020A	Units:	mg/L				
SampType:	ICV	Run ID:	ICP-MS3_130917A	Analysis Date:	9/17/2013 11:43:00 AM	Prep Date:					
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium		0.0987	0.00500	0.100	0	98.7	90	110			

Sample ID	CCV1-130917	Batch ID:	R68688	TestNo:	SW6020A	Units:	mg/L				
SampType:	CCV	Run ID:	ICP-MS3_130917A	Analysis Date:	9/17/2013 2:37:00 PM	Prep Date:					
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium		0.210	0.00500	0.200	0	105	90	110			

Qualifiers:	B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified
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CLIENT: Zia Engineering & Environmental
Work Order: 1309108
Project: HELSTF Chromate Spill

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_130918A

The QC data in batch 59541 applies to the following samples: 1309108-01A, 1309108-02A, 1309108-03A

Sample ID LCS-59541	Batch ID: 59541	TestNo: SW8260C	Units: mg/L
SampType: LCS	Run ID: GCMS7_130918A	Analysis Date: 9/18/2013 10:54:00 AM	Prep Date: 9/18/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0243	0.00100	0.0232	0	105	80	130			
1,1,1-Trichloroethane	0.0277	0.00100	0.0232	0	119	65	130			
1,1,2,2-Tetrachloroethane	0.0212	0.00100	0.0232	0	91.5	65	130			
1,1,2-Trichloroethane	0.0264	0.00100	0.0232	0	114	75	125			
1,1-Dichloroethane	0.0270	0.00100	0.0232	0	116	70	135			
1,1-Dichloroethene	0.0275	0.00100	0.0232	0	118	70	130			
1,1-Dichloropropene	0.0270	0.00100	0.0232	0	116	75	130			
1,2,3-Trichlorobenzene	0.0182	0.00500	0.0232	0	78.4	55	140			
1,2,3-Trichloropropane	0.0205	0.00100	0.0232	0	88.4	75	125			
1,2,4-Trichlorobenzene	0.0195	0.00500	0.0232	0	84.1	65	135			
1,2,4-Trimethylbenzene	0.0227	0.00500	0.0232	0	97.9	75	130			
1,2-Dibromo-3-chloropropane	0.0189	0.0100	0.0232	0	81.3	50	130			
1,2-Dibromoethane	0.0226	0.00100	0.0232	0	97.6	80	120			
1,2-Dichlorobenzene	0.0225	0.00100	0.0232	0	97.1	70	120			
1,2-Dichloroethane	0.0263	0.00100	0.0232	0	113	70	130			
1,2-Dichloropropane	0.0272	0.00100	0.0232	0	117	75	125			
1,3,5-Trimethylbenzene	0.0227	0.00500	0.0232	0	97.8	75	130			
1,3-Dichlorobenzene	0.0226	0.00100	0.0232	0	97.4	75	125			
1,3-Dichloropropane	0.0229	0.00100	0.0232	0	98.8	75	125			
1,4-Dichloro-2-butene	0.0194	0.00200	0.0232	0	83.8	50	150			
1,4-Dichlorobenzene	0.0224	0.00100	0.0232	0	96.6	75	125			
2,2-Dichloropropane	0.0293	0.00100	0.0232	0	126	70	135			
2-Butanone	0.116	0.0150	0.116	0	99.7	30	150			
2-Chloroethylvinylether	0.0244	0.0150	0.0232	0	105	50	150			
2-Chlorotoluene	0.0226	0.00100	0.0232	0	97.2	75	125			
2-Hexanone	0.109	0.0150	0.116	0	93.7	55	130			
4-Chlorotoluene	0.0227	0.00100	0.0232	0	98.0	75	130			
4-Methyl-2-pentanone	0.112	0.0150	0.116	0	96.8	60	135			
Acetone	0.137	0.0150	0.116	0	118	40	140			
Acrylonitrile	0.0510	0.00300	0.0464	0	110	50	150			
Benzene	0.0268	0.00100	0.0232	0	115	80	120			
Bromobenzene	0.0224	0.00100	0.0232	0	96.5	75	125			
Bromochloromethane	0.0272	0.00100	0.0232	0	117	65	130			
Bromodichloromethane	0.0275	0.00100	0.0232	0	118	75	120			
Bromoform	0.0228	0.00100	0.0232	0	98.4	70	130			
Bromomethane	0.0208	0.00100	0.0232	0	89.8	30	145			
Carbon disulfide	0.0242	0.0150	0.0232	0	104	35	160			
Carbon tetrachloride	0.0271	0.00100	0.0232	0	117	65	140			
Chlorobenzene	0.0238	0.00100	0.0232	0	102	80	120			
Chloroethane	0.0310	0.00100	0.0232	0	134	60	135			

Qualifiers:	B Analyte detected in the associated Method Blank	DF Dilution Factor	
	J Analyte detected between MDL and RL	MDL Method Detection Limit	
	ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits	
	RL Reporting Limit	S Spike Recovery outside control limits	
	J Analyte detected between SDL and RL	N Parameter not NELAC certified	

CLIENT: Zia Engineering & Environmental
Work Order: 1309108
Project: HELSTF Chromate Spill

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_130918A

Sample ID: LCS-59541	Batch ID: 59541	TestNo: SW8260C	Units: mg/L
SampType: LCS	Run ID: GCMS7_130918A	Analysis Date: 9/18/2013 10:54:00 AM	Prep Date: 9/18/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloroform	0.0263	0.00100	0.0232	0	113	65	135			
Chloromethane	0.0284	0.00100	0.0232	0	123	40	125			
cis-1,2-Dichloroethene	0.0268	0.00100	0.0232	0	115	70	125			
cis-1,3-Dichloropropene	0.0269	0.00100	0.0232	0	116	70	130			
Dibromochloromethane	0.0240	0.00100	0.0232	0	103	60	135			
Dibromomethane	0.0264	0.00100	0.0232	0	114	75	125			
Dichlorodifluoromethane	0.0313	0.00100	0.0232	0	135	30	155			
Ethylbenzene	0.0234	0.00100	0.0232	0	101	75	125			
Iodomethane	0.0269	0.0150	0.0232	0	116	50	150			
Isopropylbenzene	0.0237	0.00100	0.0232	0	102	75	125			
m,p-Xylene	0.0475	0.00200	0.0464	0	102	75	130			
Methyl tert-butyl ether	0.0272	0.00100	0.0232	0	117	65	125			
Methylene chloride	0.0275	0.00250	0.0232	0	118	55	140			
n-Butylbenzene	0.0218	0.00100	0.0232	0	94.1	70	135			
n-Propylbenzene	0.0223	0.00100	0.0232	0	95.9	70	130			
o-Xylene	0.0239	0.00100	0.0232	0	103	80	120			
p-Isopropyltoluene	0.0222	0.00100	0.0232	0	95.7	75	130			
sec-Butylbenzene	0.0221	0.00100	0.0232	0	95.4	70	125			
Styrene	0.0229	0.00100	0.0232	0	98.9	65	135			
tert-Butylbenzene	0.0223	0.00100	0.0232	0	96.1	70	130			
Tetrachloroethene	0.0240	0.00200	0.0232	0	103	45	150			
Toluene	0.0268	0.00200	0.0232	0	115	75	120			
trans-1,2-Dichloroethene	0.0259	0.00100	0.0232	0	112	60	140			
trans-1,3-Dichloropropene	0.0258	0.00100	0.0232	0	111	55	140			
Trichloroethene	0.0263	0.00200	0.0232	0	113	70	125			
Trichlorofluoromethane	0.0294	0.00100	0.0232	0	127	60	145			
Vinyl chloride	0.0281	0.00100	0.0232	0	121	50	145			
Surr: 1,2-Dichloroethane-d4	187		200.0		93.4	70	120			
Surr: 4-Bromofluorobenzene	199		200.0		99.6	75	120			
Surr: Dibromofluoromethane	203		200.0		102	85	115			
Surr: Toluene-d8	186		200.0		93.2	85	120			

Sample ID: LCSD-59541	Batch ID: 59541	TestNo: SW8260C	Units: mg/L
SampType: LCSD	Run ID: GCMS7_130918A	Analysis Date: 9/18/2013 11:18:00 AM	Prep Date: 9/18/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0234	0.00100	0.0232	0	101	80	130	3.44	30	
1,1,1-Trichloroethane	0.0262	0.00100	0.0232	0	113	65	130	5.64	30	
1,1,2,2-Tetrachloroethane	0.0207	0.00100	0.0232	0	89.0	65	130	2.77	30	
1,1,2-Trichloroethane	0.0257	0.00100	0.0232	0	111	75	125	2.80	30	
1,1-Dichloroethane	0.0259	0.00100	0.0232	0	112	70	135	4.23	30	

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1309108
Project: HELSTF Chromate Spill

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_130918A

Sample ID: LCSD-59541	Batch ID: 59541	TestNo: SW8260C	Units: mg/L
SampType: LCSD	Run ID: GCMS7_130918A	Analysis Date: 9/18/2013 11:18:00 AM	Prep Date: 9/18/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.0253	0.00100	0.0232	0	109	70	130	8.10	30	
1,1-Dichloropropene	0.0259	0.00100	0.0232	0	112	75	130	4.08	30	
1,2,3-Trichlorobenzene	0.0181	0.00500	0.0232	0	78.0	55	140	0.441	30	
1,2,3-Trichloropropane	0.0198	0.00100	0.0232	0	85.5	75	125	3.27	30	
1,2,4-Trichlorobenzene	0.0193	0.00500	0.0232	0	83.3	65	135	1.03	30	
1,2,4-Trimethylbenzene	0.0219	0.00500	0.0232	0	94.5	75	130	3.54	30	
1,2-Dibromo-3-chloropropane	0.0186	0.0100	0.0232	0	80.2	50	130	1.39	30	
1,2-Dibromoethane	0.0220	0.00100	0.0232	0	94.7	80	120	3.00	30	
1,2-Dichlorobenzene	0.0216	0.00100	0.0232	0	93.2	70	120	4.12	30	
1,2-Dichloroethane	0.0252	0.00100	0.0232	0	109	70	130	4.31	30	
1,2-Dichloropropane	0.0262	0.00100	0.0232	0	113	75	125	3.63	30	
1,3,5-Trimethylbenzene	0.0219	0.00500	0.0232	0	94.4	75	130	3.54	30	
1,3-Dichlorobenzene	0.0216	0.00100	0.0232	0	93.3	75	125	4.29	30	
1,3-Dichloropropane	0.0223	0.00100	0.0232	0	96.0	75	125	2.79	30	
1,4-Dichloro-2-butene	0.0189	0.00200	0.0232	0	81.4	50	150	2.87	30	
1,4-Dichlorobenzene	0.0214	0.00100	0.0232	0	92.3	75	125	4.47	30	
2,2-Dichloropropane	0.0278	0.00100	0.0232	0	120	70	135	5.39	30	
2-Butanone	0.113	0.0150	0.116	0	97.1	30	150	2.66	30	
2-Chloroethylvinylether	0.0240	0.0150	0.0232	0	104	50	150	1.77	30	
2-Chlorotoluene	0.0218	0.00100	0.0232	0	93.8	75	125	3.66	30	
2-Hexanone	0.106	0.0150	0.116	0	91.7	55	130	2.21	30	
4-Chlorotoluene	0.0218	0.00100	0.0232	0	94.0	75	130	4.18	30	
4-Methyl-2-pentanone	0.110	0.0150	0.116	0	95.0	60	135	1.83	30	
Acetone	0.131	0.0150	0.116	0	113	40	140	4.63	30	
Acrylonitrile	0.0509	0.00300	0.0464	0	110	50	150	0.334	30	
Benzene	0.0255	0.00100	0.0232	0	110	80	120	5.01	30	
Bromobenzene	0.0219	0.00100	0.0232	0	94.2	75	125	2.35	30	
Bromochloromethane	0.0273	0.00100	0.0232	0	118	65	130	0.147	30	
Bromodichloromethane	0.0266	0.00100	0.0232	0	114	75	120	3.37	30	
Bromoform	0.0222	0.00100	0.0232	0	95.9	70	130	2.57	30	
Bromomethane	0.0189	0.00100	0.0232	0	81.4	30	145	9.77	30	
Carbon disulfide	0.0231	0.0150	0.0232	0	99.4	35	160	4.99	30	
Carbon tetrachloride	0.0261	0.00100	0.0232	0	113	65	140	3.83	30	
Chlorobenzene	0.0229	0.00100	0.0232	0	98.6	80	120	3.78	30	
Chloroethane	0.0290	0.00100	0.0232	0	125	60	135	6.66	30	
Chloroform	0.0254	0.00100	0.0232	0	110	65	135	3.29	30	
Chloromethane	0.0259	0.00100	0.0232	0	112	40	125	9.31	30	
cis-1,2-Dichloroethene	0.0256	0.00100	0.0232	0	110	70	125	4.66	30	
cis-1,3-Dichloropropene	0.0258	0.00100	0.0232	0	111	70	130	4.29	30	
Dibromochloromethane	0.0232	0.00100	0.0232	0	100	60	135	3.30	30	
Dibromomethane	0.0258	0.00100	0.0232	0	111	75	125	2.30	30	

Qualifiers:	B Analyte detected in the associated Method Blank	DF Dilution Factor	
	J Analyte detected between MDL and RL	MDL Method Detection Limit	
	ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits	
	RL Reporting Limit	S Spike Recovery outside control limits	
	J Analyte detected between SDL and RL	N Parameter not NELAC certified	

CLIENT: Zia Engineering & Environmental
Work Order: 1309108
Project: HELSTF Chromate Spill

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_130918A

Sample ID: LCSD-59541	Batch ID: 59541	TestNo: SW8260C	Units: mg/L
SampType: LCSD	Run ID: GCMS7_130918A	Analysis Date: 9/18/2013 11:18:00 AM	Prep Date: 9/18/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	0.0287	0.00100	0.0232	0	124	30	155	8.64	30	
Ethylbenzene	0.0227	0.00100	0.0232	0	97.7	75	125	3.30	30	
Iodomethane	0.0252	0.0150	0.0232	0	109	50	150	6.34	30	
Isopropylbenzene	0.0230	0.00100	0.0232	0	99.3	75	125	2.99	30	
m,p-Xylene	0.0462	0.00200	0.0464	0	99.5	75	130	2.80	30	
Methyl tert-butyl ether	0.0264	0.00100	0.0232	0	114	65	125	3.09	30	
Methylene chloride	0.0269	0.00250	0.0232	0	116	55	140	2.13	30	
n-Butylbenzene	0.0211	0.00100	0.0232	0	91.0	70	135	3.40	30	
n-Propylbenzene	0.0218	0.00100	0.0232	0	93.8	70	130	2.23	30	
o-Xylene	0.0231	0.00100	0.0232	0	99.7	80	120	3.36	30	
p-Isopropyltoluene	0.0213	0.00100	0.0232	0	91.7	75	130	4.23	30	
sec-Butylbenzene	0.0215	0.00100	0.0232	0	92.8	70	125	2.75	30	
Styrene	0.0218	0.00100	0.0232	0	94.0	65	135	5.05	30	
tert-Butylbenzene	0.0215	0.00100	0.0232	0	92.6	70	130	3.70	30	
Tetrachloroethene	0.0232	0.00200	0.0232	0	99.9	45	150	3.52	30	
Toluene	0.0259	0.00200	0.0232	0	112	75	120	3.19	30	
trans-1,2-Dichloroethene	0.0248	0.00100	0.0232	0	107	60	140	4.14	30	
trans-1,3-Dichloropropene	0.0247	0.00100	0.0232	0	106	55	140	4.44	30	
Trichloroethene	0.0252	0.00200	0.0232	0	109	70	125	4.04	30	
Trichlorofluoromethane	0.0272	0.00100	0.0232	0	117	60	145	7.64	30	
Vinyl chloride	0.0260	0.00100	0.0232	0	112	50	145	7.87	30	
Surr: 1,2-Dichloroethane-d4	190		200.0		95.0	70	120	0	0	
Surr: 4-Bromofluorobenzene	200		200.0		99.8	75	120	0	0	
Surr: Dibromofluoromethane	204		200.0		102	85	115	0	0	
Surr: Toluene-d8	184		200.0		91.9	85	120	0	0	

Sample ID: MB-59541	Batch ID: 59541	TestNo: SW8260C	Units: mg/L
SampType: MBLK	Run ID: GCMS7_130918A	Analysis Date: 9/18/2013 12:07:00 PM	Prep Date: 9/18/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	<0.000200	0.00100								
1,1,1-Trichloroethane	<0.000200	0.00100								
1,1,2,2-Tetrachloroethane	<0.000200	0.00100								
1,1,2-Trichloroethane	<0.000200	0.00100								
1,1-Dichloroethane	<0.000200	0.00100								
1,1-Dichloroethene	<0.000200	0.00100								
1,1-Dichloropropene	<0.000200	0.00100								
1,2,3-Trichlorobenzene	<0.00150	0.00500								
1,2,3-Trichloropropane	<0.000300	0.00100								
1,2,4-Trichlorobenzene	<0.00150	0.00500								
1,2,4-Trimethylbenzene	<0.00150	0.00500								

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
J Analyte detected between MDL and RL MDL Method Detection Limit
ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
RL Reporting Limit S Spike Recovery outside control limits
J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1309108
Project: HELSTF Chromate Spill

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_130918A

Sample ID MB-59541	Batch ID: 59541	TestNo: SW8260C	Units: mg/L
SampType: MBLK	Run ID: GCMS7_130918A	Analysis Date: 9/18/2013 12:07:00 PM	Prep Date: 9/18/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chloropropane	<0.00300	0.0100								
1,2-Dibromoethane	<0.000200	0.00100								
1,2-Dichlorobenzene	<0.000300	0.00100								
1,2-Dichloroethane	<0.000300	0.00100								
1,2-Dichloropropane	<0.000200	0.00100								
1,3,5-Trimethylbenzene	<0.00150	0.00500								
1,3-Dichlorobenzene	<0.000300	0.00100								
1,3-Dichloropropane	<0.000200	0.00100								
1,4-Dichloro-2-butene	<0.00200	0.00200								
1,4-Dichlorobenzene	<0.000300	0.00100								
2,2-Dichloropropane	<0.000200	0.00100								
2-Butanone	<0.00500	0.0150								
2-Chloroethylvinylether	<0.00500	0.0150								
2-Chlorotoluene	<0.000300	0.00100								
2-Hexanone	<0.00500	0.0150								
4-Chlorotoluene	<0.000300	0.00100								
4-Methyl-2-pentanone	<0.00500	0.0150								
Acetone	<0.00500	0.0150								
Acrylonitrile	<0.00100	0.00300								
Benzene	<0.000200	0.00100								
Bromobenzene	<0.000200	0.00100								
Bromochloromethane	<0.000200	0.00100								
Bromodichloromethane	<0.000200	0.00100								
Bromoform	<0.000200	0.00100								
Bromomethane	<0.000300	0.00100								
Carbon disulfide	<0.00500	0.0150								
Carbon tetrachloride	<0.000200	0.00100								
Chlorobenzene	<0.000200	0.00100								
Chloroethane	<0.000300	0.00100								
Chloroform	<0.000300	0.00100								
Chloromethane	<0.000300	0.00100								
cis-1,2-Dichloroethene	<0.000200	0.00100								
cis-1,3-Dichloropropene	<0.000200	0.00100								
Dibromochloromethane	<0.000200	0.00100								
Dibromomethane	<0.000200	0.00100								
Dichlorodifluoromethane	<0.000200	0.00100								
Ethylbenzene	<0.000300	0.00100								
Iodomethane	<0.00500	0.0150								
Isopropylbenzene	<0.000200	0.00100								
m,p-Xylene	<0.000600	0.00200								
Methyl tert-butyl ether	<0.000300	0.00100								

Qualifiers:
 B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL

DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1309108
Project: HELSTF Chromate Spill

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_130918A

Sample ID MB-59541	Batch ID: 59541	TestNo: SW8260C	Units: mg/L
SampType: MBLK	Run ID: GCMS7_130918A	Analysis Date: 9/18/2013 12:07:00 PM	Prep Date: 9/18/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methylene chloride	<0.00250	0.00250								
n-Butylbenzene	<0.000300	0.00100								
n-Propylbenzene	<0.000300	0.00100								
o-Xylene	<0.000300	0.00100								
p-Isopropyltoluene	<0.000300	0.00100								
sec-Butylbenzene	<0.000300	0.00100								
Styrene	<0.000200	0.00100								
tert-Butylbenzene	<0.000300	0.00100								
Tetrachloroethene	<0.000600	0.00200								
Toluene	<0.000600	0.00200								
trans-1,2-Dichloroethene	<0.000200	0.00100								
trans-1,3-Dichloropropene	<0.000200	0.00100								
Trichloroethene	<0.000600	0.00200								
Trichlorofluoromethane	<0.000200	0.00100								
Vinyl chloride	<0.000100	0.00100								
Surr: 1,2-Dichloroethane-d4	196		200.0		97.9	70	120			
Surr: 4-Bromofluorobenzene	203		200.0		102	75	120			
Surr: Dibromofluoromethane	207		200.0		104	85	115			
Surr: Toluene-d8	183		200.0		91.6	85	120			

Qualifiers:	B Analyte detected in the associated Method Blank	DF Dilution Factor	
	J Analyte detected between MDL and RL	MDL Method Detection Limit	
	ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits	
	RL Reporting Limit	S Spike Recovery outside control limits	
	J Analyte detected between SDL and RL	N Parameter not NELAC certified	

CLIENT: Zia Engineering & Environmental
Work Order: 1309108
Project: HELSTF Chromate Spill

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_130918A

Sample ID ICV-130918	Batch ID: R68705	TestNo: SW8260C	Units: mg/L
SampType: ICV	Run ID: GCMS7_130918A	Analysis Date: 9/18/2013 10:26:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0482	0.00100	0.0464	0	104	80	120			
1,1,1-Trichloroethane	0.0529	0.00100	0.0464	0	114	80	120			
1,1,2,2-Tetrachloroethane	0.0415	0.00100	0.0464	0	89.4	80	120			
1,1,2-Trichloroethane	0.0511	0.00100	0.0464	0	110	80	120			
1,1-Dichloroethane	0.0518	0.00100	0.0464	0	112	80	120			
1,1-Dichloroethene	0.0502	0.00100	0.0464	0	108	80	120			
1,1-Dichloropropene	0.0516	0.00100	0.0464	0	111	80	120			
1,2,3-Trichlorobenzene	0.0376	0.00500	0.0464	0	81.0	80	120			
1,2,3-Trichloropropane	0.0407	0.00100	0.0464	0	87.7	80	120			
1,2,4-Trichlorobenzene	0.0404	0.00500	0.0464	0	87.2	80	120			
1,2,4-Trimethylbenzene	0.0427	0.00500	0.0464	0	92.0	80	120			
1,2-Dibromo-3-chloropropane	0.0403	0.0100	0.0464	0	86.8	80	120			
1,2-Dibromoethane	0.0439	0.00100	0.0464	0	94.5	80	120			
1,2-Dichlorobenzene	0.0428	0.00100	0.0464	0	92.2	80	120			
1,2-Dichloroethane	0.0504	0.00100	0.0464	0	109	80	120			
1,2-Dichloropropane	0.0525	0.00100	0.0464	0	113	80	120			
1,3,5-Trimethylbenzene	0.0432	0.00500	0.0464	0	93.1	80	120			
1,3-Dichlorobenzene	0.0428	0.00100	0.0464	0	92.2	80	120			
1,3-Dichloropropane	0.0443	0.00100	0.0464	0	95.4	80	120			
1,4-Dichloro-2-butene	0.0402	0.00200	0.0464	0	86.7	80	120			
1,4-Dichlorobenzene	0.0422	0.00100	0.0464	0	91.0	80	120			
2,2-Dichloropropane	0.0579	0.00100	0.0464	0	125	80	120			S
2-Butanone	0.237	0.0150	0.232	0	102	80	120			
2-Chloroethylvinylether	0.0502	0.0150	0.0464	0	108	80	120			
2-Chlorotoluene	0.0422	0.00100	0.0464	0	91.1	80	120			
2-Hexanone	0.222	0.0150	0.232	0	95.6	80	120			
4-Chlorotoluene	0.0428	0.00100	0.0464	0	92.2	80	120			
4-Methyl-2-pentanone	0.223	0.0150	0.232	0	96.2	80	120			
Acetone	0.274	0.0150	0.232	0	118	80	120			
Acrylonitrile	0.103	0.00300	0.0928	0	112	60	140			
Benzene	0.0514	0.00100	0.0464	0	111	80	120			
Bromobenzene	0.0434	0.00100	0.0464	0	93.5	80	120			
Bromochloromethane	0.0536	0.00100	0.0464	0	115	80	120			
Bromodichloromethane	0.0545	0.00100	0.0464	0	117	80	120			
Bromoform	0.0454	0.00100	0.0464	0	97.9	80	120			
Bromomethane	0.0347	0.00100	0.0464	0	74.7	80	120			S
Carbon disulfide	0.0468	0.0150	0.0464	0	101	80	120			
Carbon tetrachloride	0.0549	0.00100	0.0464	0	118	80	120			
Chlorobenzene	0.0454	0.00100	0.0464	0	97.7	80	120			
Chloroethane	0.0495	0.00100	0.0464	0	107	80	120			
Chloroform	0.0502	0.00100	0.0464	0	108	80	120			

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
J Analyte detected between MDL and RL MDL Method Detection Limit
ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
RL Reporting Limit S Spike Recovery outside control limits
J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1309108
Project: HELSTF Chromate Spill

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_130918A

Sample ID ICV-130918	Batch ID: R68705	TestNo: SW8260C	Units: mg/L
SampType: ICV	Run ID: GCMS7_130918A	Analysis Date: 9/18/2013 10:26:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloromethane	0.0525	0.00100	0.0464	0	113	80	120			
cis-1,2-Dichloroethene	0.0504	0.00100	0.0464	0	109	80	120			
cis-1,3-Dichloropropene	0.0531	0.00100	0.0464	0	114	80	120			
Dibromochloromethane	0.0483	0.00100	0.0464	0	104	80	120			
Dibromomethane	0.0510	0.00100	0.0464	0	110	80	120			
Dichlorodifluoromethane	0.0572	0.00100	0.0464	0	123	80	120			S
Ethylbenzene	0.0449	0.00100	0.0464	0	96.7	80	120			
Iodomethane	0.0499	0.0150	0.0464	0	107	80	120			
Isopropylbenzene	0.0458	0.00100	0.0464	0	98.6	80	120			
m,p-Xylene	0.0910	0.00200	0.0928	0	98.0	80	120			
Methyl tert-butyl ether	0.0549	0.00100	0.0464	0	118	80	120			
Methylene chloride	0.0534	0.00250	0.0464	0	115	80	120			
n-Butylbenzene	0.0421	0.00100	0.0464	0	90.7	80	120			
n-Propylbenzene	0.0424	0.00100	0.0464	0	91.4	80	120			
o-Xylene	0.0459	0.00100	0.0464	0	98.9	80	120			
p-Isopropyltoluene	0.0421	0.00100	0.0464	0	90.8	80	120			
sec-Butylbenzene	0.0417	0.00100	0.0464	0	89.9	80	120			
Styrene	0.0439	0.00100	0.0464	0	94.6	80	120			
tert-Butylbenzene	0.0425	0.00100	0.0464	0	91.5	80	120			
Tetrachloroethene	0.0460	0.00200	0.0464	0	99.1	80	120			
Toluene	0.0516	0.00200	0.0464	0	111	80	120			
trans-1,2-Dichloroethene	0.0498	0.00100	0.0464	0	107	80	120			
trans-1,3-Dichloropropene	0.0529	0.00100	0.0464	0	114	80	120			
Trichloroethene	0.0511	0.00200	0.0464	0	110	80	120			
Trichlorofluoromethane	0.0545	0.00100	0.0464	0	118	80	120			
Vinyl chloride	0.0524	0.00100	0.0464	0	113	80	120			
Surr: 1,2-Dichloroethane-d4	193		200.0		96.3	70	120			
Surr: 4-Bromofluorobenzene	198		200.0		98.8	75	120			
Surr: Dibromofluoromethane	202		200.0		101	85	115			
Surr: Toluene-d8	183		200.0		91.3	85	120			

Qualifiers:	B Analyte detected in the associated Method Blank	DF Dilution Factor	
	J Analyte detected between MDL and RL	MDL Method Detection Limit	
	ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits	
	RL Reporting Limit	S Spike Recovery outside control limits	
	J Analyte detected between SDL and RL	N Parameter not NELAC certified	

CLIENT: Zia Engineering & Environmental
Work Order: 1309108
Project: HELSTF Chromate Spill

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_130912A

The QC data in batch 59470 applies to the following samples: 1309108-02D, 1309108-03D

Sample ID	1309108-02D-DUP	Batch ID:	59470	TestNo:	M4500-H+ B	Units:	pH Units@18.4°C			
SampType:	DUP	Run ID:	TITRATOR_130912A	Analysis Date:	9/12/2013 12:43:00 PM	Prep Date:	9/12/2013			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	7.38	0	0	7.400				0.271		5

Qualifiers:	B Analyte detected in the associated Method Blank	DF Dilution Factor
	J Analyte detected between MDL and RL	MDL Method Detection Limit
	ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
	RL Reporting Limit	S Spike Recovery outside control limits
	J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1309108
Project: HELSTF Chromate Spill

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_130912A

Sample ID ICV-130912	Batch ID: R68627	TestNo: M4500-H+ B	Units: pH Units@23.6°C
SampType: ICV	Run ID: TITRATOR_130912A	Analysis Date: 9/12/2013 12:38:00 PM	Prep Date: 9/12/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	10.0	0	10.00	0	100	99	101			

Sample ID CCV1-130912	Batch ID: R68627	TestNo: M4500-H+ B	Units: pH Units@23.3°C
SampType: CCV	Run ID: TITRATOR_130912A	Analysis Date: 9/12/2013 12:46:00 PM	Prep Date: 9/12/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	7.01	0	7.000	0	100	97.1	102.9			

<p>Qualifiers:</p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p>
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CLIENT: Zia Engineering & Environmental
Work Order: 1309108
Project: HELSTF Chromate Spill

ANALYTICAL QC SUMMARY REPORT

RunID: TOC_130912A

The QC data in batch 59453 applies to the following samples: 1309108-02B, 1309108-03B

Sample ID MB-59453	Batch ID: 59453	TestNo: M5310C	Units: mg/L							
SampType: MBLK	Run ID: TOC_130912A	Analysis Date: 9/12/2013 11:15:00 AM	Prep Date: 9/12/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Organic Carbon	<0.300	1.00								

Sample ID LCS-59453	Batch ID: 59453	TestNo: M5310C	Units: mg/L							
SampType: LCS	Run ID: TOC_130912A	Analysis Date: 9/12/2013 11:57:00 AM	Prep Date: 9/12/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Organic Carbon	10.3	1.00	10.00	0	103	80	120			

Sample ID 1309107-01BMS	Batch ID: 59453	TestNo: M5310C	Units: mg/L							
SampType: MS	Run ID: TOC_130912A	Analysis Date: 9/12/2013 1:17:00 PM	Prep Date: 9/12/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Organic Carbon	11.3	1.00	10.00	1.383	99.4	80	120			

Sample ID 1309107-01BMSD	Batch ID: 59453	TestNo: M5310C	Units: mg/L							
SampType: MSD	Run ID: TOC_130912A	Analysis Date: 9/12/2013 1:37:00 PM	Prep Date: 9/12/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Organic Carbon	11.6	1.00	10.00	1.383	102	80	120	2.11	15	

Qualifiers:	B Analyte detected in the associated Method Blank	DF Dilution Factor
	J Analyte detected between MDL and RL	MDL Method Detection Limit
	ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
	RL Reporting Limit	S Spike Recovery outside control limits
	J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1309108
Project: HELSTF Chromate Spill

ANALYTICAL QC SUMMARY REPORT

RunID: TOC_130912A

Sample ID ICV-130912	Batch ID: R68612	TestNo: M5310C	Units: mg/L							
SampType: ICV	Run ID: TOC_130912A	Analysis Date: 9/12/2013 10:57:00 AM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Organic Carbon	14.7	1.00	15.00	0	98.1	90	110			

Sample ID CCV1-130912	Batch ID: R68612	TestNo: M5310C	Units: mg/L							
SampType: CCV	Run ID: TOC_130912A	Analysis Date: 9/12/2013 1:56:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Organic Carbon	10.6	1.00	10.00	0	106	80	120			

<p>Qualifiers:</p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p>
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CLIENT: Zia Engineering & Environmental
Work Order: 1309108
Project: HELSTF Chromate Spill

ANALYTICAL QC SUMMARY REPORT

RunID: UV/VIS_2_130912B

The QC data in batch 59467 applies to the following samples: 1309108-02D, 1309108-03D

Sample ID MB-59467	Batch ID: 59467	TestNo: M3500-Cr D	Units: mg/L							
SampType: MBLK	Run ID: UV/VIS_2_130912B	Analysis Date: 9/12/2013 12:38:00 PM	Prep Date: 9/12/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexavalent Chromium	<0.00800	0.0100								

Sample ID 1309108-03D MS	Batch ID: 59467	TestNo: M3500-Cr D	Units: mg/L							
SampType: MS	Run ID: UV/VIS_2_130912B	Analysis Date: 9/12/2013 12:43:00 PM	Prep Date: 9/12/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.273	0.0100	0.100	0.173	99.8	85	115			

Sample ID 1309108-03D MSD	Batch ID: 59467	TestNo: M3500-Cr D	Units: mg/L							
SampType: MSD	Run ID: UV/VIS_2_130912B	Analysis Date: 9/12/2013 12:43:00 PM	Prep Date: 9/12/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.278	0.0100	0.100	0.173	105	85	115	1.73	15	

Sample ID LCS-59467	Batch ID: 59467	TestNo: M3500-Cr D	Units: mg/L							
SampType: LCS	Run ID: UV/VIS_2_130912B	Analysis Date: 9/12/2013 12:46:00 PM	Prep Date: 9/12/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.0965	0.0100	0.100	0	96.5	85	115			

Sample ID LCSD-59467	Batch ID: 59467	TestNo: M3500-Cr D	Units: mg/L							
SampType: LCSD	Run ID: UV/VIS_2_130912B	Analysis Date: 9/12/2013 12:47:00 PM	Prep Date: 9/12/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.0964	0.0100	0.100	0	96.4	85	115	0.145	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1309108
Project: HELSTF Chromate Spill

ANALYTICAL QC SUMMARY REPORT

RunID: UV/VIS_2_130912B

Sample ID ICV-130912	Batch ID: R68623	TestNo: M3500-Cr D	Units: mg/L
SampType: ICV	Run ID: UV/VIS_2_130912B	Analysis Date: 9/12/2013 12:38:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Hexavalent Chromium	0.0986	0.0100	0.100	0	98.6	90	110			
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Sample ID CCV1-130912	Batch ID: R68623	TestNo: M3500-Cr D	Units: mg/L
SampType: CCV	Run ID: UV/VIS_2_130912B	Analysis Date: 9/12/2013 12:49:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Hexavalent Chromium	0.202	0.0100	0.200	0	101	90	110			
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Sample ID CCV2-130912	Batch ID: R68623	TestNo: M3500-Cr D	Units: mg/L
SampType: CCV	Run ID: UV/VIS_2_130912B	Analysis Date: 9/12/2013 12:49:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Hexavalent Chromium	0.202	0.0100	0.200	0	101	90	110			
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Qualifiers:	B Analyte detected in the associated Method Blank	DF Dilution Factor
	J Analyte detected between MDL and RL	MDL Method Detection Limit
	ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
	RL Reporting Limit	S Spike Recovery outside control limits
	J Analyte detected between SDL and RL	N Parameter not NELAC certified

Lab Order: 1309108
Client: Zia Engineering & Environmental
Project: HELSTF Chromate Spill

Sequence Report

Run ID: GC15_130917A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date	Matrix
ICV-130917	----	M8015D	R68689	1	9/17/2013 2:44:44 PM		A
LCS-59501	----	M8015D	59501	1	9/17/2013 2:59:38 PM	9/16/2013 1:19:55 PM	A
LCSD-59501	----	M8015D	59501	1	9/17/2013 3:08:08 PM	9/16/2013 1:19:55 PM	A
MB-59501	----	M8015D	59501	1	9/17/2013 3:25:06 PM	9/16/2013 1:19:55 PM	A
1309108-02E	HLSF-0143-HMW-037-0913	M8015D	59501	1	9/17/2013 3:33:35 PM	9/16/2013 1:19:55 PM	A
1309108-03E	HLSF-0143-HMW-039-0913	M8015D	59501	1	9/17/2013 3:42:03 PM	9/16/2013 1:19:55 PM	A
CCV1-130917	----	M8015D	R68689	1	9/17/2013 4:18:35 PM		A

Run ID: GCMS7_130918A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date	Matrix
ICV-130918	----	SW8260C	R68705	1	9/18/2013 10:26:00 AM		A
LCS-59541	----	SW8260C	59541	1	9/18/2013 10:54:00 AM	9/18/2013 10:36:03 AM	A
LCSD-59541	----	SW8260C	59541	1	9/18/2013 11:18:00 AM	9/18/2013 10:36:03 AM	A
MB-59541	----	SW8260C	59541	1	9/18/2013 12:07:00 PM	9/18/2013 10:36:03 AM	A
1309108-01A	HLSF-0143-HMW-037-0913-TB	SW8260C	59541	1	9/18/2013 12:57:00 PM	9/18/2013 10:36:03 AM	T
1309108-02A	HLSF-0143-HMW-037-0913	SW8260C	59541	1	9/18/2013 1:22:00 PM	9/18/2013 10:36:03 AM	A
1309108-03A	HLSF-0143-HMW-039-0913	SW8260C	59541	1	9/18/2013 1:46:00 PM	9/18/2013 10:36:03 AM	A

Lab Order: 1309108
Client: Zia Engineering & Environmental
Project: HELSTF Chromate Spill

Sequence Report**Run ID: ICP-MS3_130917A**

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date	Matrix
BLANK STD 1	----	SW6020A	R68688	1	9/17/2013 10:18:00 AM		A
1/20 ppb STD.	----	SW6020A	R68688	1	9/17/2013 10:24:00 AM		A
10/200 ppb STD.	----	SW6020A	R68688	1	9/17/2013 10:30:00 AM		A
50/1000 ppb STD.	----	SW6020A	R68688	1	9/17/2013 10:36:00 AM		A
100/2000 ppb STD.	----	SW6020A	R68688	1	9/17/2013 10:42:00 AM		A
250/5000 ppb STD.	----	SW6020A	R68688	1	9/17/2013 10:48:00 AM		A
500/10000 ppb STD.	----	SW6020A	R68688	1	9/17/2013 10:54:00 AM		A
2000/25000 ppb ST	----	SW6020A	R68688	1	9/17/2013 11:00:00 AM		A
ICV1-130917	----	SW6020A	R68688	1	9/17/2013 11:43:00 AM		A
ILCVL-130917	----	SW6020A	R68688	1	9/17/2013 12:01:00 PM		A
ICB1-130917	----	SW6020A	R68688	1	9/17/2013 12:07:00 PM		A
MB-59477	----	SW6020A	59477	1	9/17/2013 12:13:00 PM	9/13/2013 9:32:31 AM	A
LCS-59477	----	SW6020A	59477	1	9/17/2013 12:19:00 PM	9/13/2013 9:32:31 AM	A
LCSD-59477	----	SW6020A	59477	1	9/17/2013 12:25:00 PM	9/13/2013 9:32:31 AM	A
1309022-04D SD	----	SW6020A	59477	5	9/17/2013 12:43:00 PM	9/13/2013 9:32:31 AM	A
1309108-02C	HLSF-0143-HMW-037-0913	SW6020A	59477	1	9/17/2013 1:31:00 PM	9/13/2013 9:32:31 AM	A
1309108-03C	HLSF-0143-HMW-039-0913	SW6020A	59477	1	9/17/2013 1:37:00 PM	9/13/2013 9:32:31 AM	A
1309022-04D PDS	----	SW6020A	59477	1	9/17/2013 1:43:00 PM	9/13/2013 9:32:31 AM	A
1309022-04D MS	----	SW6020A	59477	1	9/17/2013 1:49:00 PM	9/13/2013 9:32:31 AM	A
1309022-04D MSD	----	SW6020A	59477	1	9/17/2013 1:55:00 PM	9/13/2013 9:32:31 AM	A
1309089-03C MS	----	SW6020A	59477	1	9/17/2013 2:01:00 PM	9/13/2013 9:32:31 AM	A
1309089-03C MSD	----	SW6020A	59477	1	9/17/2013 2:07:00 PM	9/13/2013 9:32:31 AM	A
CCV1-130917	----	SW6020A	R68688	1	9/17/2013 2:37:00 PM		A
LCVL1-130917	----	SW6020A	R68688	1	9/17/2013 3:10:00 PM		A
CCB1-130917	----	SW6020A	R68688	1	9/17/2013 3:22:00 PM		A

Run ID: TITRATOR_130912A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date	Matrix
ICV2-130912	----	M4500-H+ B	R68627	1	9/12/2013 12:36:00 PM	9/12/2013 12:36:00 PM	A
ICV1-130912	----	M4500-H+ B	R68627	1	9/12/2013 12:37:00 PM	9/12/2013 12:37:00 PM	A
ICV-130912	----	M4500-H+ B	R68627	1	9/12/2013 12:38:00 PM	9/12/2013 12:38:00 PM	A
1309108-02D	HLSF-0143-HMW-037-0913	M4500-H+ B	59470	1	9/12/2013 12:40:00 PM	9/12/2013 12:00:44 PM	A
1309108-02D-DUP	HLSF-0143-HMW-037-0913PD9	M4500-H+ B	59470	1	9/12/2013 12:43:00 PM	9/12/2013 12:00:44 PM	A
1309108-03D	HLSF-0143-HMW-039-0913	M4500-H+ B	59470	1	9/12/2013 12:45:00 PM	9/12/2013 12:00:44 PM	A
CCV1-130912	----	M4500-H+ B	R68627	1	9/12/2013 12:46:00 PM	9/12/2013 12:46:00 PM	A

Lab Order: 1309108
Client: Zia Engineering & Environmental
Project: HELSTF Chromate Spill

Sequence Report**Run ID: TOC_130912A**

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date	Matrix
ICV-130912	----	M5310C	R68612	1	9/12/2013 10:57:00 AM		A
MB-59453	----	M5310C	59453	1	9/12/2013 11:15:00 AM	9/12/2013 10:00:06 AM	A
LCS-59453	----	M5310C	59453	1	9/12/2013 11:57:00 AM	9/12/2013 10:00:06 AM	A
1309108-02B	HLSF-0143-HMW-037-0913	M5310C	59453	1	9/12/2013 12:34:00 PM	9/12/2013 10:00:06 AM	A
1309108-03B	HLSF-0143-HMW-039-0913	M5310C	59453	1	9/12/2013 12:58:00 PM	9/12/2013 10:00:06 AM	A
1309107-01BMS	----	M5310C	59453	1	9/12/2013 1:17:00 PM	9/12/2013 10:00:06 AM	A
1309107-01BMSD	----	M5310C	59453	1	9/12/2013 1:37:00 PM	9/12/2013 10:00:06 AM	A
CCV1-130912	----	M5310C	R68612	1	9/12/2013 1:56:00 PM		A

Run ID: UV/VIS_2_130912B

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date	Matrix
ICV-130912	----	M3500-Cr D	R68623	1	9/12/2013 12:38:00 PM		A
MB-59467	----	M3500-Cr D	59467	1	9/12/2013 12:38:00 PM	9/12/2013 11:26:52 AM	A
1309108-03D	HLSF-0143-HMW-039-0913	M3500-Cr D	59467	1	9/12/2013 12:43:00 PM	9/12/2013 11:26:52 AM	A
1309108-03D MS	HLSF-0143-HMW-039-0913MS	M3500-Cr D	59467	1	9/12/2013 12:43:00 PM	9/12/2013 11:26:52 AM	A
1309108-03D MSD	HLSF-0143-HMW-039-	M3500-Cr D	59467	1	9/12/2013 12:43:00 PM	9/12/2013 11:26:52 AM	A
LCS-59467	----	M3500-Cr D	59467	1	9/12/2013 12:46:00 PM	9/12/2013 11:26:52 AM	A
LCSD-59467	----	M3500-Cr D	59467	1	9/12/2013 12:47:00 PM	9/12/2013 11:26:52 AM	A
CCV1-130912	----	M3500-Cr D	R68623	1	9/12/2013 12:49:00 PM		A
1309108-02D	HLSF-0143-HMW-037-0913	M3500-Cr D	59467	1	9/12/2013 12:49:00 PM	9/12/2013 11:26:52 AM	A
CCV2-130912	----	M3500-Cr D	R68623	1	9/12/2013 12:49:00 PM		A